TRANSLATION PATENT COOPERATION TREATY From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing See form PCT/ISA/210 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION DPPC 138.818 See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. PCT/EP2005/000554 17.01.2005 16.01.2004 International Patent Classification (IPC) or both national classification and IPC G02B6/42, G02B6/00 Applicant ICOS VISION SYSTEMS N.V. This opinion contains indications relating to the following items: 1. Basis of the opinion Box No. I Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. Authorized officer Name and mailing address of the ISA/EP

Telephone No.

Facsimile No.

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International application No.
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Box	No. I Basis of this opinion			
 With regard to the language, this opinion has been established on the basis of the international application in the langua filed, unless otherwise indicated under this item. 				
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (unconstitution).	der		
	Rule 12.3 and 23.1(b)).			
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of:				
	a. type of material			
	a sequence listing			
	table(s) related to the sequence listing			
	b. format of material			
	in written format			
	in computer readable form			
	c. time of filing/furnishing			
	contained in the international application as filed.			
	filed together with the international application in computer readable form.			
	furnished subsequently to this Authority for the purposes of search.			
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.			
4.	Additional comments:			
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Box No. II Priority					
1. The following document has not yet been furnished: copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)). translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)). Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date in the claimed priority date.					
This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.					
3. Additional observations, if necessary: The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bisl and 64.1) is the					
claimed priority date.					

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.						
	Nove	elty (N) Claims 1-13	YES			
		Claims	NO NO			
	Inver	entive step (IS) Claims 1-13	YES			
		Claims	NO			
	Indus	estrial applicability (IA) Claims 1-13	YES			
		Claime	NO NO			
	Citatian					
2.	2. Citations and explanations: 1. Reference is made to the following document:					
D1: US-A-5 013 311 (NOURI ET AL.) 7 May 1991						
	2 Degiment D1 is considered the prior art closest to					
	2. Document D1 is considered the prior art closest to the subject matter of claim 1. It discloses (the					
	references between parentheses relate to said					
		document):	•			
	<pre>2.1 An illumination unit having - a light source (28), - first optics (90) for focussing the light emitted by the light source (28) (column 6, line 68 - column 7, line 1), - a light measurement head (16) for illuminating an object with a predefined brightness value,</pre>					
	- an optical waveguide (91) for transmitting the emitted and focussed light to the light measurement head (16),					
			to the light measurement			
			for marring the arial			
	- a displacement unit (92) for varying the axial					
	distance from the first optics to the optical					
		waveguide,	a liabt import in the			
wherein the intensity of the light input in the						
	optical waveguide can be varied by axially					

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

displacing the first optics (column 7, lines 5-10).

2.2 The subject matter of claim 1 differs therefore from the known illumination unit in that the light source is a high-power light source, in that the high-power light source is coupled to the first optics, and in that the cross-sectional area of the focus is at least twice as large as the cross-sectional area of the optical waveguide at the light inlet side.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

Nevertheless, the use and focussing of a high-power light source are known and obvious to a person skilled in the art (D1, high-power light source 230). Furthermore, the coupling of the light source to the first optics has no major effect in terms of the invention.

- 2.3 The problem addressed by the present invention can therefore be considered that the illumination is more homogeneous (description page 2, lines 34-35).
- 2.4 The solution proposed to this problem in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

No document in the prior art shows a focus whose cross-sectional area is at least twice as large as the cross-sectional area of the optical waveguide inlet. This solves said problem. Furthermore, this exact value is not obvious to a person skilled in

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Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement

the art.

- The subject matter of claim 10 is novel and 3. inventive for the same reasons.
- Claims 2-9 are dependent on claim 1 and thus 4. likewise meet the PCT requirements for novelty and inventive step.
- Claims 11-13 are dependent on claim 10 and thus 5. likewise meet the PCT requirements for novelty and inventive step.